

# State of Utah DEPARTMENT OF NATURAL RESOURCES Division of Water Rights

MICHAEL R. STYLER Executive Director

KENT L. JONES State Engineer/Division Director

July 16, 2012

CARL CLARK NORTH UTAH COUNTY WATER CONSERVANCY DIST 75 NORTH CENTER STREET AMERICAN FORK, UT 84003

# DIVISION OF WATER RIGHTS - DAM SAFETY SECTION DAM INSPECTION REPORT – 2012

Dam Name & Number	Northern Utah County – Tibble Fork, UT00299						
Date	July 12, 2012	Dam Type	Zoned Earthfill				
Storage Level	6378.5ft MSL	Hazard Rating	High				
Outlet Flow	0 c.f.s.	Purpose of Inspection	Annual Inspection				
Spillway Flow	75 c.f.s.	Weather	Sunny & Clear, 68°F				

Representatives at the Inspection:

representatives at the inspection.							
Name	Representing						
Everett Taylor, Logan Riley	UT Division of Water Rights, Dam Safety						
John Jacobs, Kent Evans, Lynn Walker, Alan Jenkins, Dick Mecham, Hunt Willaby, Karl Clark, Jay Franson	Northern Utah County Water Conservancy District						
Jim Ireland	NPS, Timpanogos Cave						
Brent Davis, Anna Vargo, Norm Evanstead	NRCS						

Checklist Item		Comments:	
- * *	None.		

<b>Checklist Item</b>	Immediate Action Required:			
	None.			

<b>Checklist Item</b>	Necessary Action, Maintenance and/or Repair:				
2., 3.	Remove willows from the upstream slope to the right of the spillway intake. Remove sagebrush from the downstream slope. Exterminate burrowing rodents.				

8.	Monitor the wet area on the right downstream channel bank, near the toe drain outfall, for increases in flow or turbidity.								
12.	Continue to clear the trash rack of the principal spillway intake as necessary. The intake had been cleaned prior to this inspection.								
20.	Operate the low level gate annually. Generally, the fall is a good time to do this.								
24.	The actual depth of piezometer 1-B is in question. The hole was drilled to a depth of 75 feet with the drill log indicating the piezometer was placed to a depth of 55 feet. Two (2) individuals were able to reach a depth of 135 feet with their well probes though clay mud was encountered at a depth of 5.5 feet. Problems with this piezometer need to be resolved in conjunction with Dam Safety and NRCS.								
25.	Lower portion of that the done	ortion f 2012 drain s and a	s of the toe 2. Cleaning system need section deserthe dam.	drain syst also took ls to be cle	em were place in eaned even	cleaned of 2005 and ery three	of tree roots 2009. It a years. This	ppears s should	
			and Moder		rd only):		Yes	No	
Does the Owner h	nave a curr	ent co	py of the EA	P?					
Are the notification	on flowcha	rts up	dated (i.e., na	ames, phon	e number	s, etc.)?			
Are the Inundation	n Maps in	cluded	and legible?	?					
Are copies of the	EAP distr	buted	to the appro	priate agen	cies/peop	le?			
Date of latest revi	sion: Augu	ist 1, 20	012						
Other comments: 1. None.							Taj a		
Embankment						I a			
		N/A	Not Inspected	Inundated	Good	Monitor	Maintenance	Critical	
1. Crest					$\boxtimes$				
2. Upstream Slo	***************************************								
3. Downstream	Slope								
4. Groins	3				$\boxtimes$				
Abutment/Found	ation	N/A	Not Inspected	Inundated	Good	Monitor	Maintenance	Critical	
5. Left Abutmer	nt				$\boxtimes$				
6. Right Abutme	ent				$\boxtimes$				
7. Upstream Too									
8. Downstream	Toe								
Reservoir Basin		N/A	Not Inspected	Inundated	Good	Monitor	Maintenance	Critical	
9. Shore Stabilit	у				$\boxtimes$				
10. Reservoir Bot	tom			$\boxtimes$					

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Spillway	N/A	Not Inspected	Inundated	Good	Monitor	Maintenance	Critical
11. Freeboard							
12. Intake				$\boxtimes$			
13. Concrete Structures							
14. Stilling Basin							
15. Outfall Channel				$\boxtimes$			
							2 , 1
Outlet	N/A	Not Inspected	Inundated	Good	Monitor	Maintenance	Critical
16. Conduit							
17. Intake			$\boxtimes$				
18. Stilling Basin				$\boxtimes$			
19. Discharge Channel							
20. Controls							
21. Venting							
Instrumentation	N/A	Not Inspected	Inundated	Good	Monitor	Maintenance	Critical
22. Monuments							
23. Staff Gage	$\boxtimes$						
24. Piezometers				$\boxtimes$			
25. Drains							
26. Other		100 P					

## Photos:



Photo 1: Willows on the upstream slope left of spillway intake need to be removed.



Photo 2: Example of rodent hole on downstream slope.

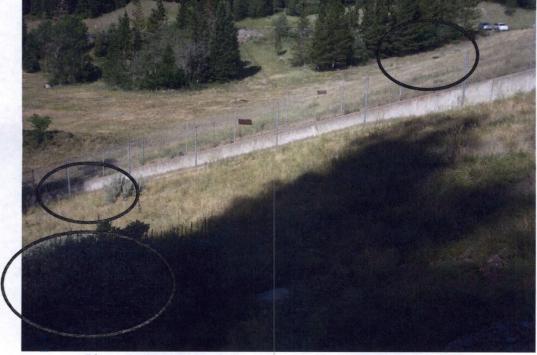


Photo 3: Remove woody vegetation from downstream slope

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Your cooperation is appreciated. If you have any questions, please feel free to contact Everett Taylor at (801) 538-7372.

Sincerely,

Deil K. Marth

David K. Marble, P.E. Assistant State Engineer

#### DKM/jm

pc: Teresa Wilhelmsen - Water Rights Regional Engineer

Kevin W Bourne, P.E. US Forest Service

Division of Water Resources

Craig Walker Division of Wildlife Resources

**Uinta-Wasatch-Cache National Forest** 

Bronson Smart, P.E. State Conservation Engineer NRCS John Jacobs North Utah County Conservancy District Superintendent Timpanogos Cave National Monument

Craig Searle Utah County Engineers Office